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(FILE 'HOME' ENTERED AT 14:45:43 ON 18 JUL 2001)

FILE 'REGISTRY' ENTERED AT 14:45:53 ON 18 JUL 2001

 E VESTANAT T 1890/CN
L1 1 S VESTANAT T 1890/CN
 E TOLONATE/CN
L2 1 S E8
L3 1 S 82197-86-2/RN

FILE 'CAPLUS' ENTERED AT 14:49:21 ON 18 JUL 2001

L4 76 S L1 OR L2 OR L3
L5 7 S L4 AND (FLUOR? OR PERFLUORO?)
L6 0 S L4 AND (OIL(W)REPELLANT OR WATER(W)REPELLANT)
L7 102523 S OLIGOURETHANE? OR POLYURETHANE?
L8 5719 S L7 AND (FLUOR? OR PERFLUORO?)
L9 6 S L8 AND (OIL(W)REPELLANT OR WATER(W)REPELLANT)

=> s 15 or 19

L10 13 L5 OR L9

X-Reference from EP Search Report

OH 09/592,254

=> d ibib abs hitstr

L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:290029 HCAPLUS

DOCUMENT NUMBER: 124:319816

TITLE: Low-surface-energy polyisocyanates and their use in one- or two-component coating compositions

INVENTOR(S): Yeske, Philip E.; Squiller, Edward P.; Slack, William E.

PATENT ASSIGNEE(S): Bayer A.-G., USA

SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 702041	A1	19960320	EP 1995-113753	19950901 <--
EP 702041	B1	20011212		
R: BE, DE, ES, FR, GB, IT, NL				
US 5576411	A	19961119	US 1994-306553	19940914
CA 2156244	AA	19960315	CA 1995-2156244	19950816
JP 08104728	A2	19960423	JP 1995-259519	19950913

PRIORITY APPLN. INFO.: US 1994-306553 A 19940914

AB The present invention is directed to a polyisocyanate mixt. (i) having an NCO content of 5 to 35% by wt. and prepd. from an org. diisocyanate, (ii) contg. at least 1% by wt. of isocyanurate groups (calcd. as N3, C3, O3, MW 126), (iii) contg. allophanate groups in an amt. such that there are more equiv. of allophanate groups than urethane groups, and (i.v.) contg. fluorine (calcd. as F, AW19) in an amt. of 0.001 to 50% by wt., wherein the preceding percentages are based on the solids content of the polyisocyanate mixt., excluding any unreacted org. diisocyanate, and wherein fluorine is incorporated by reacting an isocyanate group with a compd. contg. two or more carbon atoms, one or more hydroxyl groups and one or more fluorine atoms to form urethane groups and converting a sufficient amt. of these urethane groups to allophanate groups to satisfy the requirements of (iii), provided that the polyisocyanate mixt. contains sufficient allophanate groups to ensure that the polyisocyanate mixt. remains stable and homogeneous in storage for 3 mo at 25.degree.C. This polyisocyanate mixt. is useful in the manuf. of coatings with low surface energy. A typical polyisocyanate mixt. is manufd. by reaction of 100 g HDI with 4 parts perfluorinated ethylene oxide-end-capped polypropylene oxide monoether in the presence of trimethylbenzylammonium hydroxide at 90.degree..

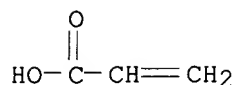
IT 79-10-7DP, 2-Propenoic acid, esters, hydroxy-functional polymers, reaction products with products of fluorinated alcs. and isocyanurate- and allophanate-contg. polyisocyanates

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(ccc; fluoropolyisocyanates contg. isocyanurate and allophanate groups having good storage stability for manuf. of polyurethane coatings with low surface energy)

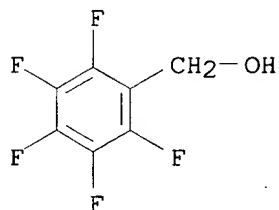
RN 79-10-7 HCAPLUS

CN 2-Propenoic acid (9CI) (CA INDEX NAME)

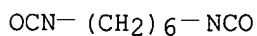


IT **440-60-8DP**, 2,3,4,5,6-Pentafluorobenzyl alcohol, reaction products with polyisocyanates and acrylic polyols **822-06-0DP**, allophanate- and isocyanurate-contg. polyisocyanates, reaction products with fluorinated alcs. and acrylic polyols **4098-71-9DP**, IPDI, allophanate- and isocyanurate-contg. polyisocyanates, reaction products with fluorinated alcs. and acrylic polyols **9003-11-6DP**, Ethylene oxide-propylene oxide copolymer, perfluorinated, monoether, reaction products with polyisocyanates and acrylic polyols **176521-16-7DP**, Desmophen ALS 2945, reaction products with allophanate- and isocyanurate-contg. polyisocyanates and fluorinated alcs. **176521-26-9DP**, Fluorolink E, reaction products with polyisocyanates and acrylic polyols **176521-29-2DP**, Galden TX, reaction products with polyisocyanates and acrylic polyols
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (fluoropolyisocyanates contg. isocyanurate and allophanate groups having good storage stability for manuf. of polyurethane coatings with low surface energy)

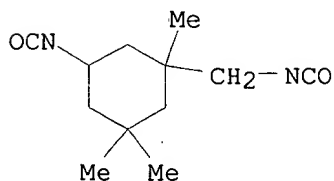
RN 440-60-8 HCAPLUS
 CN Benzenemethanol, 2,3,4,5,6-pentafluoro- (9CI) (CA INDEX NAME)



RN 822-06-0 HCAPLUS
 CN Hexane, 1,6-diisocyanato- (9CI) (CA INDEX NAME)



RN 4098-71-9 HCAPLUS
 CN Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl- (9CI) (CA INDEX NAME)



RN 9003-11-6 HCAPLUS

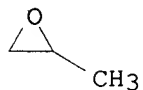
OH 09/592,254

CN Oxirane, methyl-, polymer with oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



RN 176521-16-7 HCAPLUS

CN Desmophen ALS 2945 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 176521-26-9 HCAPLUS

CN Fluorolink E (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 176521-29-2 HCAPLUS

CN Galden TX (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***